

ORIG :
UNIT : NPIC/TSSG/APSD/IEB
EXT :
DATE : 21 JANUARY 1970

SECRET

TO : SEE BELOW

FROM :

CONF :

INFO :

1970 JAN 27 14 12Z

ROUTING	DEFERRED	X	PRIORITY	INITIALS
	ROUTINE		OPERATIONAL IMMEDIATE	INITIALS

OUT 69224

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TO

INFO

CITE

7864

- ✓ SAC OFFUTT AFB OMAHA, NEBR
- ✓ 100 SRW OL 19 MCCOY AFB FLA
- ✓ DIA WASH DC
- ✓ CIA WASH DC
- ✓ 15TH AF MARCH AFB RIVERSIDE, CALIF
- ✓ HQ USAF WASH DC
- ✓ 100 SRW DAVIS MONTHAN AFB ARIZ
- ✓ 12 SAD DAVIS MONTHAN AFB ARIZ
- ✓ 544 ARTW OFFUTT AFB OMAHA, NEBR
- ✓ NAVRECONTECHSUPCEN, SUITLAND MD
- ✓ WRAMA/WRNWA WARNER ROBBINS AFB, GA

SECRET

SAC FOR DIRI, DOSR, DISD, DM4C, DPLC; 100 SRW DAVIS MONTHAN AFB FOR
DO, DCOI, DCM, AEMS; 12 SAD FOR MD; DIA FOR DIAXX-1; HQ USAF FOR
AFIGOS, AFXOTR; 15TH AF FOR DI, DO, DM4C.

COORDINATING OFFICERS

SECRET

CHIEF, NPIC/TSSG
RELEASING OFFICER

CHIEF, NPIC/TSSG/APSD
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CLASSIFIED MESSAGE

S E C R E T

ORIG :
UNIT :
EXT :
DATE :

TO :

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ROUTING

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PROGRAM	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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TO

INFO

CITE

SUBJECT: EVALUATION OF OLD HEAD MISSION G-113, FLOWN 15 JAN 70

1. IMAGE QUALITY: THE OVERALL IMAGE QUALITY IS POOR TO FAIR. THE MAJOR DEGRADING FACTOR IS IMAGE MOTION RESULTING FROM VEHICLE VIBRATION. THIS DEGRADATION IS MORE NOTICEABLE THAN ON PREVIOUS MISSIONS DUE TO THE USE OF A WIDER SLIT (0.10 INCH). THERE IS A RESULTANT LACK OF EDGE DEFINITION AT MAGNIFICATIONS OF 12X AND ABOVE. IN ADDITION THERE ARE AREAS WITHIN EACH FRAME THAT CONTAIN SMEARED IMAGERY (SCAN DIRECTION). THESE AREAS APPEAR AT RANDOM AND EXTEND ACROSS THE WIDTH OF THE FORMAT. THE INTERPRETATION SUITABILITY RANGES FROM POOR TO FAIR. CLOUD COVER OBSCURES APPROX. 15 PERCENT OF THE ENTIRE MISSION. EXAMINATION OF THE EXPOSURE CHARTS INDICATE THAT THE 0.10 INCH SLIT WIDTH USED ON THIS MISSION WAS CORRECT TO MAINTAIN PROPER EXPOSURE THROUGHOUT. HOWEVER, THE INCREASE IN APPARENT IMAGE MOTION SUGGESTS THAT A REDUCTION IN EXPOSURE DURATION IS NECESSARY. THIS CAN BE ACCOMPLISHED BY USING A WIDER BAND FILTER, A FASTER FILM TYPE, OR PENETRATING AT HIGHER SOLAR ELEVATIONS. OF

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ACTION/STATUS	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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OF THESE ALTERNATIVES, THE FIRST TWO APPEAR TO BE THE MOST FEASIBLE; HOWEVER, A CERTAIN AMOUNT OF TESTING SHOULD BE ACCOMPLISHED PRIOR TO THE USE OF EITHER ALTERNATIVE ON AN OPERATIONAL MISSION. THEREFORE, WE FEEL THAT THE USE OF A WRATTEN 12 OR WRATTEN 15 FILTER, OR A FASTER FILM TYPE, POSSIBLY SO-349, SHOULD BE INVESTIGATED.

2. MISSION DATA

- A. G-113, 19 JAN 70
- B. IRIS II, 8011
- C. A/C NO: 339
- D. STEREO
- E. T/O: 1220Z, C/ON: 1430Z
- F. 3404, W-23A
- G. MX-819-1, NRTSC
- H. AVG GAMMA: 1.73
- I. SLIT: 0.100 INCH

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CLASSIFIED MESSAGE

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RECEIVED	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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3. ORIGINAL NEGATIVE:

A. EXPOSURE: THE EXPOSURE RANGES FROM PROPERLY EXPOSED TO SLIGHTLY OVEREXPOSED AT THE END OF THE MISSION.

B. DENSITY AND CONTRAST: GENERALLY MEDIUM.

C. IMAGED DEGRADATIONS: A FISH-HOOK SHAPED AND "V"-SHAPED FOG PATTERN ARE PRESENT ON THIS MISSION. THEY ARE DESCRIBED IN THE EVALUATION OF G-107 (OUT 7580). NUMEROUS SLIT IMAGES (HEAVY IN DENSITY) ARE PRESENT, AT RANDOM, FROM FRAMES 471 - 500. THE IMAGERY IN THE SURROUNDING AREA IS SEVERELY SMEARED. THIS INDICATES THE POSSIBILITY THAT THE LENS CELL ASSEMBLY STOPPED AND STARTED SCANNING AT THESE VARIOUS LOCATIONS. BANDING IS PRESENT AT THE SUPPLY END OF MOST FRAMES. HOWEVER, THERE ARE SEVERAL INSTANCES IN WHICH BANDING IS PRESENT THROUGHOUT THE FRAME.

D. PHYSICAL DEGRADATIONS: SIX HEAT SPLICES AND ONE ULTRA-SONIC SPLICE ARE PRESENT ON THE MISSION. FINE EMULSION SCRATCHES ARE PRESENT THROUGHOUT THE MISSION.

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PRIORITY	DEFERRED	PRIORITY	INITIALS
	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

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E. DATA RECORDING EQUIPMENT: ALL SYSTEMS FUNCTIONED PROPERLY.

F. OTHER: THE LAST TITLED FRAME IS 671, COUNTER 671.

4. POSITIVES: THE PRINTING AND PROCESSING ARE GOOD.

END OF MESSAGE

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P R E C E D E N C E		DEFERRED	PRIORITY	INITIALS
	X	ROUTINE	OPERATIONAL IMMEDIATE	INITIALS

TO :
 FROM :
 CONF :
 INFO :

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TO INFO CITE

(SIG CENTER NOTE: PLEASE INSERT TAPE FOR EVALUATION OF
 OLD HEAD MISSION G-113 HERE). THANK YOU

CHIEF, NPIC/TSSG
 RELEASING OFFICER

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